

IN THE CLAIMS

Please amend the claims as follows:

1. (currently amended) A low-noise block (LNB) control device capable of controlling modulation of an alternating waveform on a direct current (DC) voltage from a DC power supply to an LNB amplifier, said LNB control device comprising:

an LNB signalling module for providing a switch control signal and a modulating waveform; and

a switch circuit for selectively sending said modulating waveform to a summing circuit external to said LNB control device according to said switch control signal, wherein said summing circuit includes a resistor, a capacitor and a darlington transistor, wherein said summing circuit adds said modulating waveform to said DC voltage.

2. (original) The LNB control device of Claim 1, wherein said LNB control device further includes a power supply control module for receiving a power supply feedback signal from said DC power supply, and for sending a control signal to said DC power supply in response to said received power supply feedback signal.
3. (original) The LNB control device of Claim 1, wherein said LNB control device further includes a high impedance resistor.
4. (original) The LNB control device of Claim 1, wherein said LNB control device further includes a modulating voltage source and an offset voltage source.
5. (original) The LNB control device of Claim 1, wherein said switch circuit includes at least one transistor.

6. canceled

7. (currently amended) The LNB control device of Claim 6 1, wherein said darlington transistor is a darlington NPN transistor.

8. (original) The LNB control device of Claim 1, wherein said LNB control device is further coupled to a filter.

9. (original) The LNB control device of Claim 8, wherein said filter includes an inductor and resistor.

10. (original) The LNB control device of Claim 9, wherein said filter includes a capacitor.

11. (currently amended) A satellite receiver comprising:

a DC power supply for providing a DC signal;

a filter circuit, coupled to said DC power supply, for filtering said DC signal;

a low-noise block (LNB) control device, coupled to said DC power supply, for providing a power supply control signal to and receiving a power supply feedback signal from said DC power supply, and for generating a modulating signal; and

a summing circuit, coupled to said LNB control device, for adding said modulating signal to said DC signal, wherein said summing circuit includes a resistor, a capacitor and a darlington transistor.

12. (original) The satellite receiver of Claim 11, wherein said filter circuit includes an inductor and a resistor.

13. (original) The satellite receiver of Claim 11, wherein said filter circuit includes a capacitor.

14. (original) The satellite receiver of Claim 11, wherein said LNB control device further includes

a power supply control module for receiving said power supply feedback signal from said DC power supply, and for sending said power supply control signal to said DC power supply in response to said received power supply feedback signal;

an LNB signalling module for providing a switch control signal and said modulating waveform; and

a switch circuit for selectively sending said modulating waveform to said summing circuit according to said switch control signal.

15. (original) The satellite receiver of Claim 14, wherein said switch circuit includes at least one transistor.

16. (original) The satellite receiver of Claim 14, wherein said LNB control device further includes a high impedance resistor.

17. (original) The satellite receiver of Claim 14, wherein said LNB control device further includes a modulating voltage source and an offset voltage source.

18. canceled

19. (currently amended) The satellite receiver of Claim ~~18~~ 11, wherein said darlington transistor is a darlington NPN transistor.